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Substitute for form 1449A/PTO	Complete if Known				
INFORMATION DISCLOSURE	Application Number	To be assigned 10/064,008			
STATEMENT BY APPLICANTS	Filing Date	Herewith			
	Applicants	Sumilia; Ingram			
(use as many sheets as necessary)	Group Art Unit	3748			
	Examiner Name	D. Tran			
Sheet 1 of 7	Attorney Docket Number	202-0405			

				U.S. P/	ATENT DOCUME	ENTS		
EXAMINER INITIAL*	No.	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Re Figures Appear
DT		3,696,318		Boyd et al		10	10-72	
		3,969,932		Riege	r et al	07-	20-76	
		4,033,122		Masaki	et al	07-	-05-77	
		4,178,883		Herth		12-	18-79	
		4,251,989		Norima	tsu et al	02-	24-81	
		4,622,809		Abthoff	et al	11.	18-86	
	1	4,854,123		Inoue e	t al	08	-08-89	
		4,884,066		Miyata	et al	11.	28-89	
				Uchida	et al	04	-03-90	
_		5,009,210		Nakaga	wa et al	04	23-91	
_	1	5,088,281		Izutani	et al	02-	18-92	
	1	5,097,700		Nakane	:	03	24-92	
		5,165,230		Kayanı	ma et al	11-	24-92	
		5,174,111		Nomura	et al	12-	29-92	
		5,189,876		Hirota e	et al	03	02-93	
		5,201,802		Hirota e	rt al	04	13-93	<del></del>
1/	1	5,209,061		Takesh	ima	05	11-93	<u> </u>
DT	<del>                                     </del>	5,222,471		Stueve	<u> </u>	06-	29-93	<del> </del>
<del></del>	<del></del>		F	OREIGN	PATENT DOCU	MENT	S	. <del>L </del>
		Foreign Patent D						
EXAMINER INITIAL*	No.	Office <sup>3</sup>		nd Code" ( known)	NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or

		CORRIGI	1 Patent Document				
EXAMINER INITIAL*	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>a</sup>	Kind Code" (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DT		DE	196 07 151 C1		Slemens AG	07-10-97	
DT		ΕP	0 351 197 A2		Johnson Matthey	01-17-90	
DT		EP	0 444 783 A1		Lucas Industries	09-04-91	

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DATE CONSIDERED 1/16/07

"Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Unique citation designation number.

<sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

<sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must preced acrief number of the patent document.

<sup>3</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO	Complete if Known				
INFORMATION DISCLOSURE	Application Number	To be assigned 10/664,008			
STATEMENT BY APPLICANTS	Filing Date	Herewith			
	Applicants	Sumilla; Ingram			
(use as many sheets as necessary)	Group Art Unit	3748			
·	Examiner Name	D. Tran			
Sheet 2 of 7	Attorney Docket Number	202-0405			

EXAMINER INITIAL*	Cite No. 1	DOCU		Kind Code <sup>2</sup>		NAME		DATE MM-OD-YY	Pages, Columns, Lines, Where Relevant Passages or Re Figures Appear
97		5,233	3,830		Take	shima et al	08-	-10-93	
		5,267	7,439		Raff	et al	12-	-07-93	
`   _		5,270	),024		Kasa	hara et al	12-	-14-93	•
		5,272	2,871		Oshi	ma et al	12-	-28-93	
		5,325	5,664		Seki	et al	07-	-05-94	
•		5,331	1,809		Take	shima et al	07-	-26-94	·
1		5,335	5,538		Blisc	hke et al	08-	09-94	
	5,357,750 5,377,484 5,402,641			Ito et al         10-25-94           Shimizu         01-03-95			-25-94		
							-03-95		
				Katoh et al 04-04-95		-04-95			
		5,412	,412,945		Katoh et al 05-09-95		-09-95		
	$\vdash$	5,412	2,946		Oshi	ma et al	05	-09-95	
		5,414	1,994		Culle	n et al	05-	-16-95	
	<del>                                     </del>	5,423	3,181		Katoh et al 06-13-9		-13-95		
		5,433	3,074		Seto	Seto et al 0		-18-95	
		5,437	7,153		Take	shima et al	08-	-01-95	
1/		5,448	3,887		Take	shima	09-	-12-95	· · · · · · · · · · · · · · · · · · ·
DT		5,450	7,722		Take	shima et al	09-	-12-95	
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		Foreig	n Patent Docum		d Code <sup>5</sup>			5,75	Daniel California Library
EXAMINER INITIAL*	Cite No. 1	Office <sup>3</sup>	Nu		known)	NAME		MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DT.		JP	JP 2-207159			Toyota		08-16-90	
		JP	2-30915	<del></del>		Toyota		02-01-90	
	<u> </u>	JP	2-33408			Toyota		02-02-90	
<b>V</b>		JP	3-135417		1	Matsushita Elec.	-	06-10-91	

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Honda

5-108493

04-27-93

DT

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must preced serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>8</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute	for form 14	M9A/PTO		Complete if Known				
INFORM	ATION	DISC	LOSURE	Application Number	To be assigned 10/064,008			
STATEM	ENT B	Y API	PLICANTS	Filing Date	Herewith			
<b>.</b>	_, -, -			Applicants	Sumilla; Ingram			
(use as many	sheets as	necessa	y)	Group Art Unit	3748			
				Examiner Name	D. Tran			
Sheet	3	of	7	Attorney Docket Number	202-0405			

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EXAMIN BNITIA		Cite No. 1	DOCU!		Kind Code <sup>2</sup> (if known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear		
T.Q.	-		5,472	,673		Goto	et al	12-	05-95			
			5,473	3,887		Take	shima et al	12-	12-95			
			5,473	,890		Take	shima et al	12-	12-95			
			5,483	,795	_	Katol	h et al	01-	16-96			
			5,544	,482		Mats	umoto et al	08-	13-96			
			5,551	,231		Tana	ka et al	09-	03-96			
			5,577	,382		Kihai	ra et al .	11-	26-96			
			5,595	,060		Toga	i et al	01-	21-97			
			5,598	98,703		Haml	burg et al	02-	04-97			
			5,622,047		Yamashita et al 04-22-97			22-97	74			
			5,655	,363		Ito et	al	08-	12-97			
			5,657	,625		Koga	et al	08-	19-97			
			5,693	5,693,877		Ohsu	iga et al	12-	02-97			
			5,713	,199		14.000		02-	02-03-98 02-10-98			
			5,715	,679				02-				
			5,724	,808		Ito et	al	03-	10-98	,		
	/		5,732	,554		Sasa	ki et ai	03-	31-98			
<u>D</u>	7		5,735	,119		Asan	uma et al	04-	07-98			
	<u> </u>		<u> </u>	<del></del>	F	OREIGN	PATENT DOCUM	ENTS	3			
EXAMIN		Cite No.	Foreign Office <sup>3</sup>	Patent Docum	Kin	d Code <sup>8</sup> known)	NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
D7	7		JP	5-106494			Honda		04-27-93			
			JP	5-26080			Mitsubishi Motors		02-02-93	·		
	_		JP	62-117620	)		Nippon Shokubal		05-29-87			
	,		JP	6-264787		1	Nissan Motor	一	09-20-94			
D	-		JP	62-97630			Nippon Shokubal		05-07-87	11-Time		

<sup>\*</sup>Examiner: tritial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered undude copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO	Complete if Known				
INFORMATION DISCLOSURE	Application Number	To he assigned 10/064,008			
STATEMENT BY APPLICANTS	Filing Date	Herewith			
	Applicants	Surnilla; Ingram			
(use as many sheets as necessary)	Group Art Unit	3748			
	Examiner Name	D. Tran			
Sheet 4 of 7	Attorney Docket Number	202-0405			

					U.S. F	PATENT DOCUMEN	TS			
EXAMINER INITIAL*	Cite No. 1	DOCU		Kind Code <sup>2</sup> (If known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear	
DT		5,740	,669		Kinu	gasa et al	04	-21-98		
		5,743	,084		Hepb	urn	04-	-28-98		
		5,746	,049		Culle	n et al	05-	-05-98		
		5,748	3,052		Kinu	gasa et al	05-	-05-98		
		5,752	492		Kato	et al	05-	19-98		
		5,792	,436		Feele	y et al	08-	·11·98	•	
		5,842	,340		Bush	et al	12-	-01-98		
		5,865	,027		Hana	fusa et al	02-	02-99		
	5,970,707			Sawa	ida et al	10-	0-26-99			
		5,974,793		Kinugasa et al 11-0			-02-99			
		5,983	3,627	7	Asil		Asik 11-16-99 Yoshizaki et al 01-18-00		16-99	
		6,014	1,859		Yosh	18-00				
		4,036	5,014	4		Ariga		07-19-77		
		4,964	,272		Kaya	numa 10-23-90		-23-90		
		5,410	),873		Tash	iro	05-02-95			
		5,412	2,945		Kato	h et al	05-	09-95		
- V	-	5,419	,122		Tabe	et al	05-	-30-95		
DT		5,437	7,153		Take	shima et al	08-	01-95		
	<b>.</b>	L		F	OREIGI	PATENT DOCUM	ENT	S	<u></u>	
EXAMINER INITIAL*	CRa No.	Foreign Office <sup>3</sup>	n Patent Docum	Kir	nd Code <sup>s</sup> known)	NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear	
DT		JP	64-53042			Mitsubishi		03-01-89		
		JP	6-58139			Nissan Motor		03-01-94		
		JP	7-97941			Kazuhiro et al		04-11-95		
$\overline{}$		EP	0 351 197	A1		Johnson Matthey		01-17-90		
DT		EP	0 503 882	A1		S. Takeshima		09-16-92		

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<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English tanguage Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede earlal number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>9</sup>Applicant is to place a check mark here if English tanguage Translation is attached.

Substitute	for form 14	49A/PTO		Cor	Complete if Known					
INFORM	ATION	DISC	LOSURE	Application Number	To be assigned	10/064,008				
STATEM	ENT B	Y API	PLICANT	S Filing Date	Herewith					
				Applicants	Sumilia; Ingram	<del></del>				
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				Examiner Name	D. Tran					
Sheet	5	of	7	Attorney Docket Number	202-0405					

EXAMINER INITIAL*	Cite No. 1	DOCU		Kind Code <sup>2</sup> (# known)		NAME	DATE MM-DD-YY	Pages, Coturnns, Lines Where Relevant Passages or F Figures Appear
DT		5,45	2,576		Ham	burg et al	09-26-95	
1 -		5,48	3,795		Kato	h et al	01-16-96	
		5,62	6,014		Hept	ourn et al	05-06-97	
		5,62	6,117		Wrig	ht et al	05-06-97	
		5,71	3,199		Take	shima et al	02-03-98	
		5,715,679			Asan	uma et al	02-10-98	
		5,722,236			Culle	n et al	03-03-98	
	5,771,685 5,771,686 5,778,666			Hept	ourn	06-30-98		
				Piscl	hinger et al	06-30-98		
				Culle	n et al	07-14-98		
		5,802,843		Kuril	hara et al	09-08-98		
		5,80	5,803,048 5,832,722				09-08-98	
		5,832					11-10-98	
	1	5,93	3,715		Zang et al Hepburn et al		08-17-99	
		5,974	4,788				11-02-99	
		5,974	1,791		Hirot	a et al	11-02-99	
V		5,922	2,142		Pott		11-30-99	
TG		5,996	3,338		Hirot	a	12-07-99	
				F	OREIGI	N PATENT DOCUM	ENTS	
EXAMINER INITIAL*	Cite No. 1				nd Code <sup>8</sup> known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DT		EP	0 580 389	A1	T	Toyota	01-26-94	Newson Figures Appear
DT		WP	98/27322		1	Ford Motor Co.	06-25-98	
DI		JP	7-166851			Toyota	06-27-95	
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| DATE CONSIDERED | 11/16/076
| Examiner: Initial if citation considered, whether or not chation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.

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Substitute	for form 1	449A/PT	0		Complete if Known					
INFORM	ATION	DIS	CL	OSURE	Application Number	To be assigned	10/064,008			
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					Applicants	Sumilla; Ingram	·····			
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					Examiner Name	D. Train				
Sheet	6	of		7	Attorney Docket Number	202-0405				

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DT		6,012	,428		Yano	et al	01	-11-00	
		6,023,929			Ma		02	-15-00	
		6,058	,700		Yamashita et al Cullen et al Surnilla et al		05	-09-00	
		5,479	,898				01	-02-96	
<b>—</b>		6,189	,316				02	20-01	
DT		5,497	,745		Culle	n et al	03	-12-96	
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<sup>5</sup>For Japanese patent documents, the Indication of the year of the reign of the Emperor must praced serial number of the patent document.

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	Applicants	Sumilla; Ingram		
(use as many sheets as necessary)	Group Art Unit	3748		
	Examiner Name	D. Tran		
Sheet 7 of 7	Attomey Docket Number	202-0405		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
EXAMINER INITIAL*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(e), publisher, city and/or country where published
		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based
DT	]	Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way
	1	Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS
j	1	REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127.
		ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx In
		Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11.
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage.
	1	Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships",
	}	SAE 800051, February 25-29, 1980.
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst
	{	Characterization Under Cyclic Conditions*, SAE 800052, February 25-29, 1980.
		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic
$\mathbf{V}$	{	Control of NOx in Lean Burn Applications*, SAE 881595, October 10-13, 1988.
	<del>                                     </del>	TOSHIAKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction",
DT		JSAE 882072 - 882168
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